

## ABSTRACT

A reflection cowl for a bar-code scanner features that the light source  
wherein is a mono luminous element of light-emitting diode (LED) with a  
reflection cowl disposed in the rear aspect thereof; the said reflection cowl is  
5 divided by the center line passed through the light source into a left and a right  
portions of reflection curved surfaces; respectively, the left and the right  
portions of the curved surfaces have a plurality of concaved reflection spherical  
surfaces thereon; all the said reflection spherical surfaces have the function of  
distributing the light so as to make all the light rays reflected back from all the  
10 reflection spherical surfaces fall evenly on the convex light stick, thereby  
adjusting the curvature of the reflection cowl further adjusts the left and the  
right distribution areas of the reflected light, that means, evenly distributes the  
brightness at the center and on the side rim thereof.